OWNER'S MANUAL

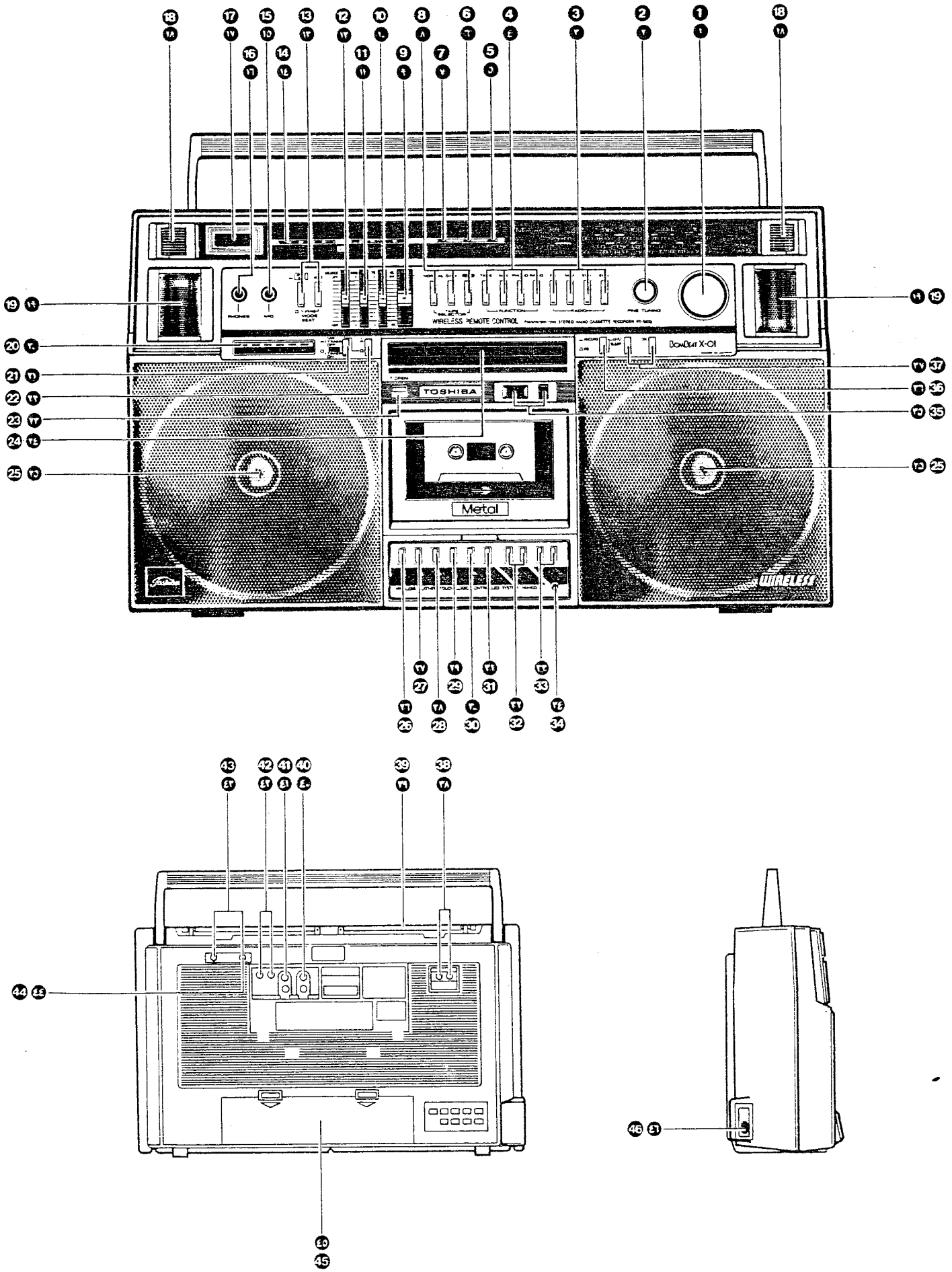
TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-S933

BOMBEAT X-01

CONTROL FUNCTIONS CONTROLES 각 부의 명칭 الضوابط وأزرار التشغيل ومهامها

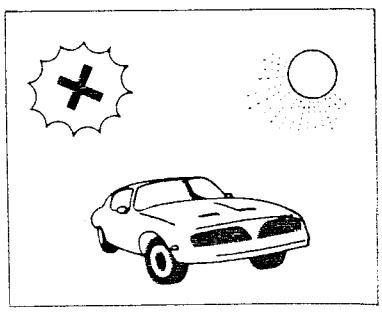


CONTROL FUNCTIONS

❶ Tuning knob
❷ [FINE TUNING] Control
❸ [RADIO] Selector: FM/MW/SW_1/SW_2
❹ [FUNCTION] Selector:
TAPE/AUX/PHONO/RADIO
❺ [TUNING] Indicator
❻ [FM STEREO] Indicator
❼ [BATTERY] Indicator
❽ [TAPE SELECTOR] Selector: NORMAL/CrO_2/ Metal
❾ [VOLUME] Control
❿ TREBLE Control
⓫ Bass Control
⓬ [BALANCE] Control
⓭ [MODE/BEAT] Selector: MONO/STEREO/SPACE WIDE
⓮ Level Meters
⓯ [MIC] Jack
⓰ [PHONES] Jack
⓱ Infrared Sensor Window
⓲ Built-in Microphones
⓳ Tweeter Speakers
⓴ MQJS/TIME COUNT EDITOR/AUTO REPEAT Indicators
㉑ [TIMER/MQJS] Button:
⊓MR/TIMER OFF – ⊓ MQJS /TIMER ON
㉒ [AUTO REPEAT] Buttons: ⊓ / ⊓
㉓ [▼OPEN] Button
㉔ Tape Transport Mode Indicators
㉕ Woofer Speakers
㉖ [■STOP] Button
㉗ [●RECORD] Button
㉘ [◀◀REW/REVIEW] Button
㉙ [▶PLAY] Button
㉚ [▶▶FF/CUE] Button
㉛ [IIPAUSE/EDITOR] Button
㉜ [VOLUME] Buttons: UP/DOWN
㉝ [MQJS] (AUTO REPEAT) Buttons: SET/RESET
㉞ Remote Control Button Indicator
㉟ Tape Counter/Counter Reset Button
㊱ [TIMER] Switch: ⊓RECORD/⊓PB
㊲ [POWER] Switch: ⊓ON–⊓OFF/SLEEP
Note: In the ⊓ OFF/SLEEP position the mains power will still be supplied. Therefore, when not in use unplug the cord from the socket.
㊳ [SPEAKER] Jacks
㊴ Telescopic Antennas
㊵ [LINE OUT] Jacks
㊶ [AUX/PHONO] Jacks
㊷ [MIC] Jacks
㊸ External FM Antenna Terminal
㊹ [PHONO ⏚] Terminal
㊺ Batteries Compartment
㊻ [AC POWER] Socket

CAUTIONS

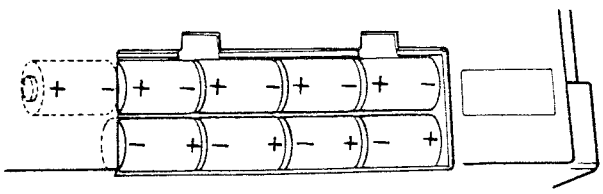
1. Use only the power cord supplied. Other cords, if used, may cause problems. (Please refer to the item "AC POWER".)
2. Do not leave your set in an extremely hot place like a closed car exposed to summer sunshine.
3. Please remove the batteries when the unit is not in use.



POWER SUPPLY

■ Batteries (optional)

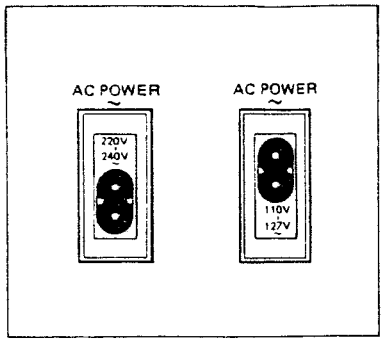
Open the battery cover, insert 9 dry cells (SUM-1 "D" size), observing correct polarity (+, –) indication.



■ To Check the Condition of the Batteries

When the set is turned on, the [BATTERY] indicator ❼ should light up. If it fails to light, the batteries have run down, and all 9 batteries must be replaced with fresh SUM-1 "D" size batteries.

■ AC POWER



This unit operates on either household current of 110-127 V AC. The [AC POWER] socket ㊻ located on the side of the set is pre-set at 220-240 V AC. Connect one end of the power cord to [AC POWER] socket ㊻ and the other end to an AC outlet.

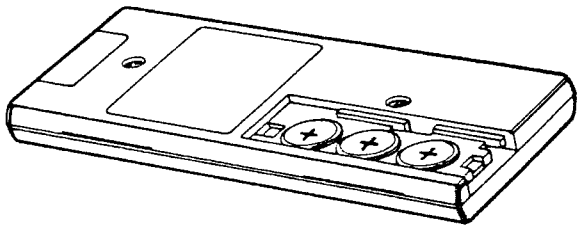
Precautions on power source changeover

Prior to changing over the [AC POWER] socket ㊻, confirm the local voltage of the current to which this cassette recorder is to be connected. Should it be inadvertently connected to the wrong voltage, trouble may result.

To operate the set on 110-127 V AC

Slide the cover of the [AC POWER] socket ㊻, and connect one end of the power cord to [AC POWER] socket ㊻ and other end to an AC outlet.

■ Mounting Battery Cells into the Remote Control Unit

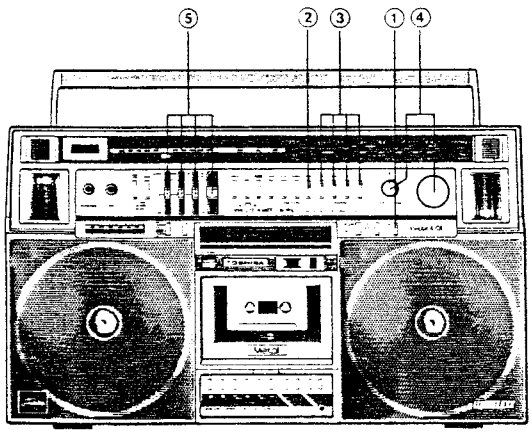


The wireless remote control unit uses three alkaline manganese (LR44) or silver oxide (SR44) battery cells. Always leave them in the control unit whether the recorder is powered by its built-in battery or from AC line.

When any of the control buttons on the remote control unit is pressed, the button operation indicator ㉞ comes on. If this indicator does not come on or the recorder is not controlled properly, check the batteries.

OPERATION

1 Listening to the Radio



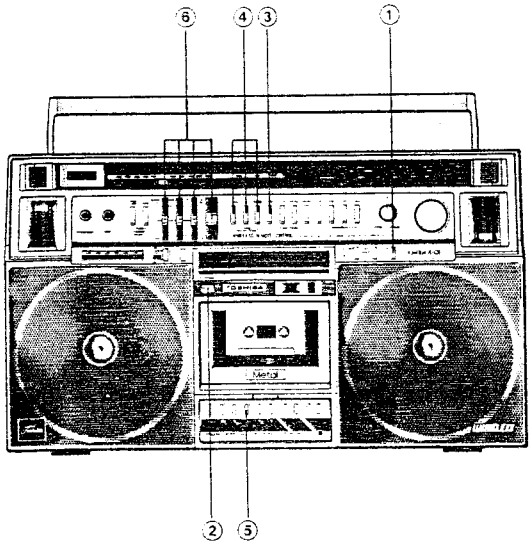
① Press the ⏤ON button of the [POWER] switch.
② Press the RADIO button of the [FUNCTION] selector.
③ Select the desired band with the [RADIO] selector.
④ Turn the tuning knob and [FINE TUNING] knob to tune in the desired radio station. The [TUNING] indicator will light up when the station is tuned.
⑤ Adjust the volume, balance and tone for the most preferable listening condition.

Note: Use the [FINE TUNING] control for MW/SW_1/SW_2 radio broadcasts only. Adjust the direction and length of the telescopic antennas to obtain optimum sound when listening to FM and SW radio broadcasts.

- If you operate the remote controller while listening to an AM program, some noise may be heard. But it is not trouble of your set.
- When listening to an FM stereo program, set [MODE/BEAT] button ㉓ to the SPACE WIDE position. This will allow you to enjoy increased stereophonic effect.

Mode \ Button	Stereo/Space Wide	Mono/Stereo
Stereo	⎍	⎍
Mono	⎍ or ⏤	⏤
Space Wide	⏤	⎍

2 Listening to Tapes



① Press the ⏏ON button of the [POWER] switch.
② Press the [▼OPEN] button to open the cassette compartment, and insert a recorded tape.
③ Press the TAPE button of the [FUNCTION] selector.
④ Set the [TAPE SELECTOR] according to the type of the tape you use.
⑤ Press the [▶PLAY] button to start the tape.
⑥ Adjust the volume, balance and tone for the most preferable listening condition.

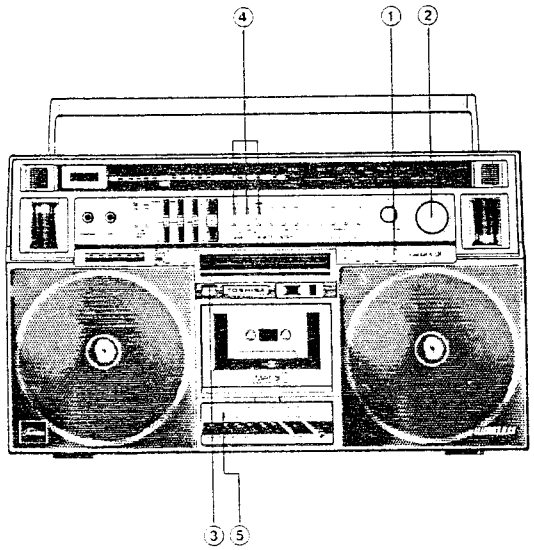
Full Auto Shut-Off (ASO) Mechanism

When the end of the tape is reached during playback, recording, fast forward or rewind modes, the ASO mechanism automatically stops the tape and disengages the tape transport. However, the power to the set will remain on after the ASO mechanism is activated. To turn off the power, press the ⏏OFF/SLEEP button of the [POWER] switch.

Note: If recording or playback is made at a loud level when the [POWER/BATT] indicator ⑦ remains off, the full ASO feature may be activated to stop tape transport.

- When the OFF/SLEEP button of the [POWER] switch is depressed or the [TIMER/MQJS] button is placed in the ⏏TIMER ON (out) position, the unit is placed in the same state as when it is connected to a timer. As a result, the tape transport control will operate when the power cord is plugged into an outlet or discharged batteries are replaced with new ones. Be sure to leave the [TIMER/MQJS] button in the ⏏TIMER OFF (in) position.
- When the ON button of the [POWER] switch ㊲ is pressed, the cassette hub on the right-hand side will slightly turn in the playback direction. But this is not trouble.

3 Recording Radio Broadcasts



① Press the ⏏ON button of the [POWER] switch.
② Tune to the desired station as described above under "Listening to the Radio".
③ Press the [▼OPEN] button, and insert a blank tape.
④ Set the [TAPE SELECTOR] according to the type of the tape you use.
⑤ Press the [●RECORD] button.

- If a whistling sound is audible in MW programme recording, use the [MODE/BEAT] selector to suppress it. Confirm that there is no whistling sounds.
- Since this set has been designed with an automatic recording level adjustment circuit (ALC), a suitable recording level will be set automatically without any further operations. Furthermore, this set also features a "variable monitor system" permitting the listener to change the listening volume without effecting the recording level.

4 Recording via Built-in Microphones

① Press the ⏏ON button of the [POWER] switch ㊲.
② Press the [▼OPEN] button ㉓ and insert a blank tape.
③ Press the TAPE button of the [FUNCTION] selector ❹.
④ Press the [●RECORD] button ㉗.

5 Recording with External Microphones

Plug external microphones (optional) into the [MIC] jacks ㊷ in the rear of the set, and then proceed in exactly the same way as described above for "Recording via Built-in Microphones".

6 To Listen To or Record From a Phono-Disc and External Equipment

To listen to or record from a phono-disc player or other source equipment, connect the source to the rear [AUX/PHONO] jacks ㊶ and then press the PHONO or AUX button of the [FUNCTION] selector.

To record the source program place the set in the record mode.

Note: When using a phono-disc player as a source be sure to connect its ground lead to the [PHONO ⏚] terminal ㊹ on the set.

7 Line Out

When feeding the output signal to other amplifier, connect these jacks to the AUX input jacks of that amplifier.

MQJS

What is MQJS?

The MQJS mechanism is designed to seek blank portions between sections of recorded tape, and then to automatically commence playing from a blank portion. In the RT-S933, the MQJS mechanism can jump up to 10 sections forward, or 9 sections backward, and automatically start playing a selected tune.

Note: Keep [AUTO REPEAT] button ㉒ in the ⊓ (out) position. [TIMER/MQJS] button ㉑ may be in either one of ⊓ or ⊓ position.

■ Repeated Listening to a Present Tune

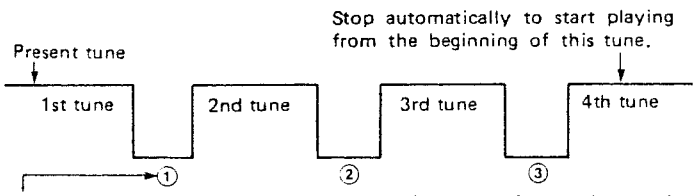
① Put the tape into playback mode as described earlier under "Listening to Tapes".
② Press the [◀◀REW/REVIEW] button ㉘.

■ Jumping the Present Tune to the Next

① Put the tape into playback mode as described earlier under "Listening to Tapes".
② Press the [▶▶FF/CUE] button ㉚.

In the above two cases it is not necessary to press the [MQJS] button ㉝.

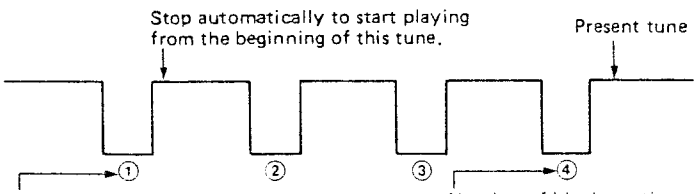
■ Jumping the Present Tune to Listen to 4th Tune Ahead



Number of blank portions between tunes (Number of jumped tunes, in this case 3.)

① Put the tape into playback mode as described earlier under "Listening to Tapes".
② Press the [MQJS SET] button ㉝ 3 times.
③ Then press the [▶▶FF/CUE] button ㉚.

■ Jumping the Present Tune to Listen to the 4th Tune Back



Number of tunes jumped in this case 4

Number of blank portions between tunes

① Put the tape into playback mode as described earlier under "Listening to Tapes".
② Press the [MQJS SET] button ㉝ 4 times.
③ Then press the [◀◀REW/REVIEW] button ㉘.

Note: When the [MQJS SET] button ㉝ was pressed incorrectly, press the [MQJS RESET] button ㉝, perform the same procedure again.

Notes: The MQJS mechanism may fail to operate in the following situations:

1. When a blank (non-recorded) portion of tape is too short (less than 5 seconds).
2. When a blank portion of tape contains noise.
3. When a tune contains pianissimo (very soft sound) or silence.
4. When the batteries have run down.
5. When MQJS button is pressed accidentally without pressing the [▶PLAY] button ㉙ (in this case, the tape will be switched to fast forward or rewind mode).
6. When the [AUTO REPEAT] button is placed in the ⊓ (IN) position.
7. When the [◀◀REW/REVIEW] button ㉘ is pressed almost immediately after the start of a tune, or when the [▶▶FF/CUE] button ㉚ is pressed just before the end of a tune (in this case, the tune following the next will be played instead of the next).

■ Procedure of Recording Tape for MQJS

- When recordong from the radio or via microphones, make the blank portions between each recorded portion in the following way:

① At the end of a recording, keep pressing the [❚❚PAUSE/EDITOR] button ㉛ letting the tape continue moving for at least 5 seconds.
② Then release the [❚❚PAUSE/EDITOR] button ㉛ to stop the tape.
③ After a commercial or other unwanted announcements have finished, press the [●RECORD] button ㉗ or [▶PLAY] button ㉙ again to start recording again.

AUTO REPEAT FEATURE

Use of the [AUTO REPEAT] and [TIMER/MQJS] buttons allows you to listen to one side of a tape repeatedly or one particular recorded section (tune) repeatedly.

< To listen to one side of a tape repeatedly > – Auto Repeat –

① Place the recorder in the Play mode according to the procedure given in "To Listening To Tapes" on page 5 .
② Press [AUTO REPEAT] button ㉒ into ⊏ (IN) position.
③ Press the [MQJS SET] button ㉓ by the times equal to the desired number of repetitions.
④ The recorder plays the tape to the end, rewinds it to the beginning of the tape, then starts playing again. When the recorder plays the tape by the preset number of repetitions, it is automatically placed in the Stop mode.
* If LED 1 is lit, auto repeat won't take place. Auto Repeat Function is effective when any of the LEDs except LED 1 is lit.

< To listen to a particular section (tune) of a tape > – Single Tune Repeat –

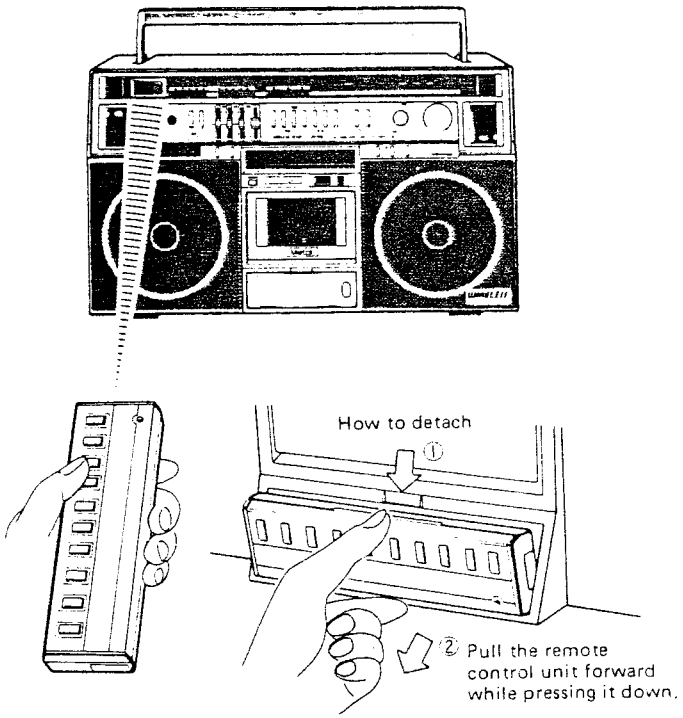
① Place the recorder in the Play mode according to the procedure given in "To Listening To Tapes" on page 5 .
② Press [TIMER/MQJS] button into the ⊏ MR position. Place [AUTO REPEAT] button ㉒ in the ⊐ (OUT) position.
③ Select the desired tune for listening by following the steps given under MQJS on page 6.
④ The recorder winds or rewinds the tape to the beginning of the selected tune, then starts playing it back repeatedly.
- The recorder repeats playing back the same tune until the tape is stopped by operating [■STOP] button ㉘.
- Also take note on the Notes 1 to 6 from the MQJS.

WIRELESS REMOTE CONTROL

- The tape transport control section is detachable from the recorder to function as a wireless remote control unit.
- When operating the remote control unit, aim it to the infrared sensor window ⑰ on the recorder.
- To ensure proper remote control function, do not place any object in front of the infrared sensor window nor stick anything on it.
- While you press and hold the VOLUME UP button on the remote control unit, the volume level will gradually increase, but up to the point where the VOLUME control knob ⑨ on the recorder is set.
- For easier volume level control, it is recommended that you operate the VOLUME control buttons on the remote control unit repeatedly, with each depression only momentarily.
- If the recorder is turned off by operating the "⊏ OFF/SLEEP" button and then turned on again by operating the "ON" button of [POWER] switch ㊲ , the volume level is set to the level set with the [VOLUME] control knob ⑨ .
- If any control button on the remote control unit is inoperative, temporarily release it and then try to operate it again.

Notes: When using the remote control unit, note the following precautions:

- The effective range of the remote control unit is approximately 6 meters from the front side of the recorder.
- The effective range will be reduced if the recorder is exposed to direct sunlight or infrared rays or it is placed on a TV set under operation.
- While operating any of the control buttons on the remote control unit, hold the unit as still as possible.



MIC MIXING OPERATIONS

① Turn the power on.
② Select the source to be used for mixing and prepare it for playback.
③ Insert the microphone to the [MIC] jack ⑮.
④ Adjust the overall volume, balance, and tone.

- To use as a public address system, press the AUX button of the [FUNCTION] switch ❹. Then adjust the volume. If a high level of acoustic feed-back is heard from the speakers (howling), move the microphone away from the speakers or turn the volume down.

OPERATING HINTS

■ How To Use the Sleep Feature

• The Sleep feature will automatically turn off the radio after you sleep.

① Tune in the desired station, then insert a tape and press the [▶PLAY] button ㉙ to start tape transport.
② Press the ⏍ OFF/SLEEP button of the [POWER] switch and place the [TIMER] button ㉟ in the ⏍ PB position.
③ When the end of the tape is reached, the tape stops and the radio is automatically turned off.

• The presettable sleep timer interval depends on the length of the tape you use: 15 minutes for C-30, 30 minutes for C-60, and 45 minutes for C-90.
If you wish to record the radio program while the sleep timer works, press the [●RECORD] button ㉗ instead of the [▶PLAY] button ㉙.

■ Unattended Recording and Morning Alarm Playback

• Use of the optional audiotimer allows you to make unattended recording of radio programs or morning alarm playback.

• Unattended recording

① Tune in the desired station.
② Set the audio timer so that the recorder is powered on when the desired time is reached. Connect the power cord of the recorder to the audio timer (power remains off).
③ Press the ⏍ ON button and then ⏍ OFF/SLEEP button of the [POWER] switch ㊲.
④ Place the [TIMER/MQJS] button ㉑ in the ⏍ MQJS/TIMER ON position.
⑤ Press the [TIMER] button ㉟ into the ⏍ RECORD position.
⑥ Recording will be automatically started when the preset time is reached.

• Morning alarm playback

① Place the recorder in the Play mode.
② Set the audio timer so that the recorder is powered on when the desired time is reached. Connect the power cord of the recorder to the audio timer (power remains off).
③ Press the ⏍ ON button and then ⏍ OFF/SLEEP button of the [POWER] switch.
④ Place the [TIMER/MQJS] button ㉑ in the ⏍ MQJS/TIMER ON position.
⑤ Place the [TIMER] button ㉟ in the ⏍ PB position.
⑥ Tape playback will automatically be started when the preset time is reached.

CAUTIONS

1. When making unattended recording or morning alarm playback, be sure to press the ⏍ OFF/SLEEP button of the [POWER] switch into in position.
2. When the end of the tape is reached at the end of automatic recording or playback, the tape will automatically stop.

• Morning alarm by radio

① Tune in the desired station.
② Follow step ② of the above morning alarm playback procedure.
③ The radio will automatically be turned on when the preset time is reached.

Caution: If any of the above operations is made after the volume level is adjusted with the remote control unit, the volume level is preset at the position of the [VOLUME] control ❾ on the recorder.

SPECIFICATIONS

Cassette Tape Used	Normal: C-30, C-60, C-90, C-120 Chrome: C-45, C-60, C-90 Metal: C-46, C-60, C-90
Tape Speed	4.8 cm/sec.
Track System	Four-track two-channel stereophonic
Recording System	AC bias (85 kHz)
Erasing System	AC erasing
Frequency Response	Normal: 50 Hz to 12 kHz Metal: 50 Hz to 15 kHz
Receiving Frequency	FM: 88 MHz to 108 MHz SW2: 7.5 MHz to 22 MHz SW1: 2.3 MHz to 7.5 MHz MW: 525 kHz to 1605 kHz
Intermediate Frequency	FM: 10.7 MHz MW, SW: 455 kHz
Antenna	FM, SW: telescopic antennas MW: ferrite-core antenna
Speakers	Woofer (180 mm dia. dynamic) x 2 Tweeter (40 mm dia. dynamic) x 2
Jacks	[MIC] jack x 2, Impedance 200 ohm to 2 k ohm, φ3.5 mm [MIXING MIC] jack x 1, impedance 200 ohm to 2 k ohm, φ6.3 mm [AUX/PHONO] jack x 2, Impedance 20 k ohm, pin-type [LINE OUT] jack x 2, Impedance 4.7 k ohm, pin-type [SPEAKER] jack x 2, Impedance 3.2 ohm to 8 ohm, φ3.5 mm [PHONES] jack headphone, φ6.3 mm
Power Supply	AC 110 to 127 V, 220 to 240 V, 50/60 Hz DC 13.5 V (SUM-1 "D" size x 9)
Power Consumption	25 W
Dimensions	520 (W) x 307 (H) x 172 (D) mm
Weight	6.5 kg (without batteries)

Specifications are subject to change for improvement.